BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Providing Asphalting to main and cross roads of Yelhanka new town 5th phase at Nagarjuna apartment in ward no-02 of Yelhanka subdivision

Estimate Amount : 4990000.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	Removing Slab of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s	1	231	0.90		207.90		
	Deuction for missing stretch ((231-66) = 165)		-1	165	0.90		-148.50		
	Ch: (0 - 231)	R/s	1	231	0.90		207.90		
	Deuction for Cross roads (81-72) = 9		-1	9	0.90		-8.10		
	Deuction for missing stretch (17 = 17)		-1	17	0.90		-15.30		
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s	1	274	0.90		246.60		
	Deuction for Cross roads (106-98)+(144-138)+(187-180)+(227-222) = 26		-1	26	0.90		-23.40		
	Deuction for missing stretch (6 = 6)		-1	6	0.90		-5.40		
	Ch: (198 - 274)	R/s	1	76	0.90		68.40		
							530.10	**63.72**	**33777.97**
2	Refixing Slabs of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s	1	231	0.90		207.90		
	Deuction for missing stretch ((231-66) = 165)		-1	165	0.90		-148.50		
	Ch: (0 - 231)	R/s	1	231	0.90		207.90		
	Deuction for Cross roads (81-72) = 9		-1	9	0.90		-8.10		
	Deuction for missing stretch (17 = 17)		-1	17	0.90		-15.30		
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s	1	274	0.90		246.60		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (106-98)+(144-138)+(187-180)+(227-222) = 26		-1	26	0.90		-23.40		
	Deuction for missing stretch (6 = 6)		-1	6	0.90		-5.40		
	Ch: (198 - 274)	R/s	1	76	0.90		68.40		
							530.10		
	Deduction for damaged 20%						-106.02		
							424.08	**78.84**	**33434.47**
3	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	COVER SLAB								
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s							
	Deuction for missing stretch ((231-66) = 165)		1	165	0.90		148.50		
	Ch: (0 - 231)	R/s							
	Deuction for Cross roads (81-72) = 9								
	for missing stretch (17 = 17)		1	17	0.90		15.30		
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s							
	for missing stretch (6 = 6)		1	6	0.90		5.40		
	For Damaged portion						106.02		
							275.22	**1834.00**	**504753.48**
4	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s	1	231	0.60	0.600	83.16		
	Ch: (0 - 231)	R/s	1	231	0.60	0.600	83.16		
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s	1	274	0.60	0.600	98.64		
	Ch: (198 - 274)	R/s	1	76	0.60	0.600	27.36		
							292.32	**168.76**	**49331.92**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
5	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. **(Page No 25., I.No.5.30 of KPWD S.R 2015-16).**								
		Nos							
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s	1	231			513.00		
	Ch: (0 - 231)	R/s	1	231			513.00		
	Deuction for Cross roads (81-72) = 9		-1	9			-20.00		
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s	1	274			609.00		
	Deuction for Cross roads (106-98)+(144-138)+(187-180)+(227-222) = 26		-1	26			-58.00		
	Ch: (198 - 274)	R/s	1	76			169.00		
							1726.00	**320.76**	**553631.76**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	ROAD WORKS								
6	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	1st cross road opp to SKF Software								
	Ch: (0 - 247)		1	247	7.20		1778.40		
	Ch: (0 - 138)		1	138	5.50		759.00		
	Ch: (138 - 198)		1	60	5.00		300.00		
	Ch: (198 - 274)		1	76	5.30		402.80		
	5th main from Cargill office to Shivamandir road								
	Ch: (0 - 13)		1	13	9.50		123.50		
	Ch: (13 - 165)		1	152	6.00		912.00		
	Ch: (165 - 265)		1	100	6.30		630.00		
	Ch: (265 - 601)		1	336	6.70		2251.20		
	3rd cross road								
	Ch: (0 - 58)		1	58	6.70		388.60		
	Ch: (0 - 158)		1	158	6.50		1027.00		
							8572.50	**3.24**	**27774.90**
7	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	1st cross road opp to SKF Software								
	Ch: (0 - 247)		1	247	7.20		1778.40		
	Ch: (0 - 138)		1	138	5.50		759.00		
	Ch: (138 - 198)		1	60	5.00		300.00		
	Ch: (198 - 274)		1	76	5.30		402.80		
	5th main from Cargill office to Shivamandir road								
	Ch: (0 - 13)		1	13	9.50		123.50		
	Ch: (13 - 165)		1	152	6.00		912.00		
	Ch: (165 - 265)		1	100	6.30		630.00		
	Ch: (265 - 601)		1	336	6.70		2251.20		
	3rd cross road								
	Ch: (0 - 58)		1	58	6.70		388.60		
	Ch: (0 - 158)		1	158	6.50		1027.00		
							8572.50	**15.12**	**129616.20**
8	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	1st cross road opp to SKF Software								
	Ch: (0 - 247)		1	247	7.20		1778.40		
	Ch: (0 - 138)		1	138	5.50		759.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (138 - 198)		1	60	5.00		300.00		
	Ch: (198 - 274)		1	76	5.30		402.80		
	5th main from Cargill office to Shivamandir road								
	Ch: (0 - 13)		1	13	9.50		123.50		
	Ch: (13 - 165)		1	152	6.00		912.00		
	Ch: (165 - 265)		1	100	6.30		630.00		
	Ch: (265 - 601)		1	336	6.70		2251.20		
	3rd cross road								
	Ch: (0 - 58)		1	58	6.70		388.60		
	Ch: (0 - 158)		1	158	6.50		1027.00		
							8572.50		
	taking 18% for profile correction		1	1543.05		0.050	**77.15**		
							77.15	**7927.20**	**611603.30**
9	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	1st cross road opp to SKF Software								
	Ch: (0 - 247)		1	247	7.20	0.030	53.35		
	Ch: (0 - 138)		1	138	5.50	0.030	22.77		
	Ch: (138 - 198)		1	60	5.00	0.030	9.00		
	Ch: (198 - 274)		1	76	5.30	0.030	12.08		
	5th main from Cargill office to Shivamandir road								
	Ch: (0 - 13)		1	13	9.50	0.030	3.71		
	Ch: (13 - 165)		1	152	6.00	0.030	27.36		
	Ch: (165 - 265)		1	100	6.30	0.030	18.90		
	Ch: (265 - 601)		1	336	6.70	0.030	67.54		
	3rd cross road								
	Ch: (0 - 58)		1	58	6.70	0.030	11.66		
	Ch: (0 - 158)		1	158	6.50	0.030	30.81		
							257.18	**9822.60**	**2526127.16**
	ROAD FURNITURES								
10	KSRRB 800-1. Painting **two coats after filling the surface** with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8**(Page No 179, I.No.24.1 of KPWD S.R 2015-16).**								
		Sqm							
	Kerb Painting								
	1st cross road opp to SKF Software								
	Ch: (0 - 231)	L/s	1	231		0.300	69.30		
	Ch: (0 - 231)	R/s	1	231		0.300	69.30		
	Deuction for Cross roads (81-72) = 9		-1	9		0.300	-2.70		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Continuation of 1st cross road opp to Bescom								
	Ch: (0 - 274)	L/s	1	274		0.300	82.20		
	Deuction for Cross roads (106-98)+(144-138)+(187-180)+(227-222) = 26		-1	26		0.300	-7.80		
	Ch: (198 - 274)	R/s	1	76		0.300	22.80		
							233.10	**61.56**	**14349.64**
11	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								
		Sqm							
	1st cross road opp to SKF Software								
	Ch: (0 - 247)		2.5	247	0.10		61.75		
	Ch: (0 - 138)		2.5	138	0.10		34.50		
	Ch: (138 - 198)		2.5	60	0.10		15.00		
	Ch: (198 - 274)		2.5	76	0.10		19.00		
	5th main from Cargill office to Shivamandir road								
	Ch: (0 - 13)		2	13	0.10		2.60		
	Ch: (13 - 165)		2	152	0.10		30.40		
	Ch: (165 - 265)		2	100	0.10		20.00		
	Ch: (265 - 601)		2	336	0.10		67.20		
	3rd cross road								
	Ch: (0 - 58)		2	58	0.10		11.60		
	Ch: (0 - 158)		2	158	0.10		31.60		
							293.65	**473.04**	**138908.20**
	Sub Total								**4623308.99**
12	Cost towards Design Report and Detailed Estimate,PMC/Third party								**46233.09**
13	**Cost of Plastic@ 8% of bitumen qty for BC**	**Kg**	1	2900.93				**27.00**	**78325.22**
14	Cost towards DLP								**231165.45**
15	Miscllenous and other charges								**10967.25**
	Grand Total								**4990000.00**

Certificate:-

1. That the workspot inspected by me and found work is neccssary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-02
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP